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SUPPLEMENTARY MATERIAL TO $\pi-\pi$ interactions in structural stability: Role in superoxide dismutases

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Fig. S-1. Example of a multiple π interactions (π -network) for the cambialistic SOD from *Propionibacterium shermanii* (PDB code 1ar5); The interactions are marked with a pink dashed lines.

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SUPPLEMENTARY MATERIAL



Fig. S-2. Details of π–π interactions: a) The strongest attractive π–π interaction of *Escherichia coli* MnSOD (PDB code 1d5n). The interaction is marked with a pink dashed line:
A:His27-A:Tyr11; R_{cen} = 5.70 Å, R_{clo} = 3.61 Å, θ= 59.77°, λ = 51.92°, E = -32.7 kJ mol⁻¹;
b) Interaction energy of π–π interaction in the presence of metal cation (Zn²⁺) in Cu/Zn Tomato Chloroplast SOD (PDB code 3pu7): A:Zn²⁺-A:His27–A:Tyr11; R_{cen} = 3.97 Å, R_{clo} = 2.98 Å, θ= 26.01°, λ = 41.21°, E = -327.7 kJ mol⁻¹.

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